



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3338-1
Job Sheet 169710



Part No: D3338-1

Job Qty: 40 ea

Part Name: Mounting Lug



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 12/19/17

Job Tracking No:

Due Date: 1/5/18

Created By: Linda Lacelle

Type: Stock

Description:

Note: 09/20/2017 LMC Please Sell As DSI 9712-011 As DSI Only Contains D3338-1 X1. D3338-1 Is For Installation With Dart Crosstubes Only. If Installing With OEM Crosstubes You Need D2230-1.

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	40 Ea		1/4/18	0.00	0.00	Start Up Container		
110	Outsource <i>purchase</i>	40 pcs		1/4/18	0.00	0.00	Outsource5 <i>purchase</i>		<i>mgf 22-12-17</i>
120	Packaging	40 pcs		1/4/18	0.00	0.00	Packaging2		<i>mgf 22-12-17</i>
130	QC	40 pcs		1/4/18	0.00	0.00	QC6		<i>mgf 17-12-2017</i>
140	HandFinish	40 pcs		1/4/18	0.00	0.69	HandFinish1		
150	QC	40 pcs		1/4/18	0.00	0.00	QC7-2 <i>N/A 12-12-17</i>		<i>mgf</i>
160	Powdercoat	40 pcs		1/5/18	0.00	0.32	Powdercoat1		<i>mgf</i>
170	QC	40 pcs		1/5/18	0.00	0.00	QC3		<i>mgf</i>
175	Packaging	40 pcs		1/5/18	0.00	0.00	Packaging3-1		<i>AT 57527</i>
180	QC21-SA	40 Ea		1/5/18	0.00	0.00	QC21		<i>mgf</i>

Part Op 110 - Issue PO 38687 1- Check for extrusion defects while loading into the machine 2- Machine as per Folio Descriptions: FA506 and Dwg D3338

150 - START TIME: _____

DAS
13
9-89

DEC 20 2017

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	D2423	3	844	0	0
	D3338-1P	40	0	0	0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Core/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____	Step #: _____	Job No: 169710 Mfg Date: 12/22/17 Purchasing D3338-1 Change No: Operation: Revision: PART NO: S026722 DART AEROSPACE			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description 									
Root Cause <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Job No: 169710 Mfg Date: 12/22/17 Purchasing D3338-1 Change No: Operation: Revision: PART NO: S026722 DART AEROSPACE			<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> <td style="width:50%;"> Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐ </td> </tr> </table>	Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐								
Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐								
OTHER : _____									

DART Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 CANADA
 TEL.: 1 613 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Mounting Log	4.450inches $\pm$ 0.010	4.460 4.440		
2	Mounting Log	0.306inches $\pm$ 0.010	0.316 0.296		
3	Mounting Log	2.200inches $\pm$ 0.030	2.230 2.170		
4	Mounting Log	0.735inches $\pm$ 0.010	0.745 0.725		
5	Mounting Log	0.250inches $\pm$ 0.010	0.260 0.240		
6	Mounting Log	0.400inches $\pm$ 0.010	0.410 0.390		
7	Mounting Log	1.200inches $\pm$ 0.010	1.210 1.190		
8	Mounting Log	3.700inches $\pm$ 0.005	3.705 3.695		
9	Mounting Log	0.375inches $\pm$ 0.010	0.385 0.365		
10	Mounting Log	0.750inches $\pm$ 0.010	0.760 0.740		
11	Mounting Log	0.257inches + 0.005 - 0.000	0.262 0.257		

Plex 12/19/17 2:45 PM dart.lacelle.linda

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

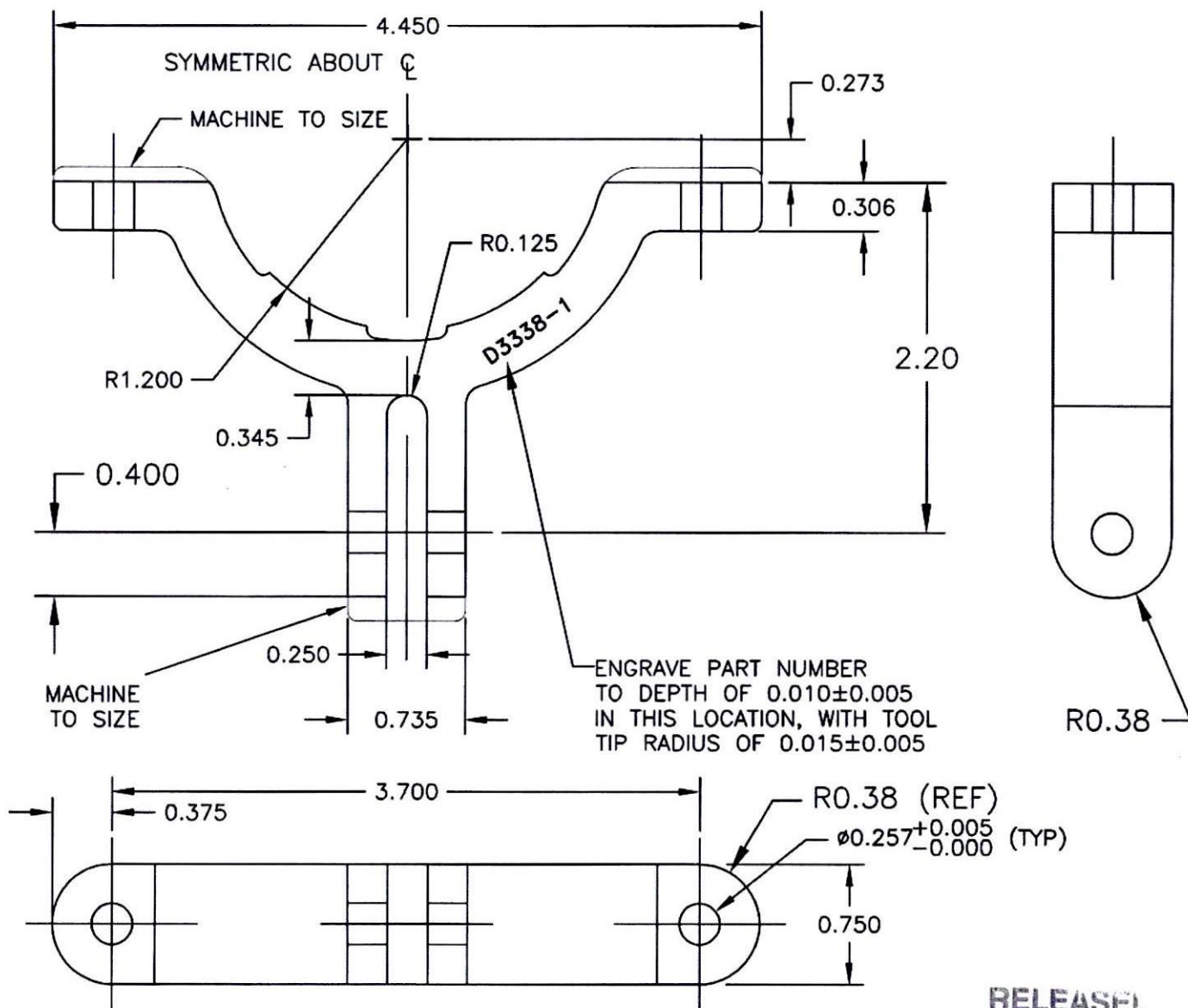
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					



DESIGN PH	DRAWN BY PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED [Signature]	APPROVED [Signature]	DRAWING NO. D3338	REV. A SHEET 1 OF 1
DATE 04.11.03		TITLE MOUNTING LUG	SCALE 1:1
A	04.11.03	NEW ISSUE	



D3338-1 NOTES

- 1) MAKE FROM EXTRUSION D2423
- 2) BREAK ALL EDGES 0.000-0.015
- 3) FINISH: ACID ETCH AND ALODINE PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

RELEASE

04.12.16

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038688

Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038688

PO Date: 12/20/17

Due Date: 12/21/17

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
DEC 20 2017

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: QUOTE # 5723

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	D4091-1P			Lug	Firmed	12/21/17	50 pcs	0 pcs	50 pcs	\$16.10/pcs	\$805.00
Line Item Note: AS PER DWG D4091 REV. A B169710 ALODINE AND PAINT AS PER QSI 005											
2	D3338-1P			Mounting Lug	Firmed	12/21/17	40 pcs	0 pcs	40 pcs	\$20.60/pcs	\$824.00
Line Item Note: AS PER DWG D3338 REV. A B169710 ALODINE AND PAINT AS PER QSI 005											
										Grand Total: \$1,629.00	

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Plex 12/20/17 2:22 PM dart.lavoie.chantal



20 Terry Fox Drive
Vankleek Hill, Ontario K0B 1R0 , Canada
Tel: (613) 678-3957
Fax: (613) 678-3956

Delivery Slip No.: 22237
Date: Dec 20, 2017
Page: 1

Sold to:	Ship to:
Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7	Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7
Order No.: PO038688	Sold By: Walz, Christian D.
Shipped By: your truck	Ship Date: Dec 20, 2017

Description	Bin Loc	Unit	Quantity ordered	Quantity shipped	Quantity on B/O
D4091-1 Lug as per drawing D4091 Rev.A Alodine and Paint as per QSI 005		Each	50	50	
D3338-1 Mounting Lug Alodine and Paint as per QSI 005		Each	40	40	
The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.					
Received by _____			Thank you for your order!		



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0
Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>PART NAME</u>	<u>P.O. NUMBER</u>
40	D3338-1	Lug Paint Batch # 21012 Material B148835	38688
50	D4091-1	Lug Paint Batch # 21095 Material B148835	38668

Material supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

Jan Norris

Vankleek Hill, December 21, 2017